

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

- 1           1.       (Original) An apparatus for use with a subsea well, comprising:  
2                   a carrier line spool having a carrier line that is adapted to be positioned  
3       underwater; and  
4                   a stack in a structure separate from the carrier line spool, the stack adapted to  
5       operatively couple to subsea wellhead equipment, and the carrier line attached to the stack.
  
- 1           2.       (Original) The apparatus of claim 1, wherein the carrier line spool comprises a  
2       coiled tubing spool.
  
- 1           3.       (Original) The apparatus of claim 1, wherein the carrier line spool is selected  
2       from the group consisting of a wireline spool and slickline spool.
  
- 1           4.       (Original) The apparatus of claim 1, wherein the carrier line spool is adapted to  
2       be positioned on the sea floor separate from the stack.
  
- 1           5.       (Original) The apparatus of claim 1, wherein the carrier line spool comprises a  
2       coiled tubing spool, the apparatus further comprising an injector head adapted to drive coiled  
3       tubing from the coiled tubing spool.
  
- 1           6.       (Original) The apparatus of claim 5, wherein the stack comprises the injector  
2       head.
  
- 1           7.       (Original) The apparatus of claim 6, wherein the stack further comprises a  
2       gooseneck to provide support for coiled tubing reeled from the coiled tubing spool.
  
- 1           8.       (Original) The apparatus of claim 5, further comprising at least one buoyancy  
2       tank attached to an assembly containing the injector head.

1           9.     (Original) The apparatus of claim 1, further comprising a carousel containing a  
2 plurality of intervention tools.

1           10.    (Original) The apparatus of claim 9, wherein the carousel is rotatable underwater  
2 to enable switching of tools for connection to the carrier line.

1           11.    (Original) The apparatus of claim 1, wherein the stack contains an emergency  
2 disconnect package.

1           12.    (Original) The apparatus of claim 11, further comprising a connector connected  
2 between the emergency disconnect package and the subsea wellhead equipment.

1           13. – 14. (Cancelled)

1           15.    (Currently Amended) An apparatus for use with a subsea well, comprising:  
2 a carrier line spool having a carrier line that is adapted to be positioned  
3 underwater and to be operatively coupled to intervention equipment attached to subsea wellhead  
4 equipment; and

5 an underwater marine unit adapted to operatively couple the carrier line to the  
6 intervention equipment attached to the subsea wellhead equipment in response to wireless  
7 signals;

8 ~~wherein the underwater marine unit comprises an interface to receive wireless~~  
9 ~~signals.~~

1           16.    (Original) The apparatus of claim 15, wherein the wireless signals comprise  
2 acoustic wave signals.

1           17.   (Currently Amended) A method of intervention with a subsea well, comprising:  
2                   positioning a carrier line spool underwater;  
3                   attaching a stack to subsea wellhead equipment, the stack in a structure separately  
4 located from the carrier line spool; and  
5                   deploying ~~coupling~~ a carrier line of the carrier line spool ~~[[to]]~~ into the stack.

1           18.   (Currently Amended) The method of claim 17, wherein deploying ~~coupling~~ the  
2 carrier line comprises deploying ~~coupling~~ the carrier line ~~[[to]]~~ through an injector head in the  
3 stack.

1           19.   (Currently Amended) The method of claim 18, wherein deploying ~~coupling~~ the  
2 carrier line comprises deploying ~~coupling~~ the carrier line through a gooseneck to the injector  
3 head.

1           20.   (Original) The method of claim 17, further comprising lowering the carrier line  
2 into the subsea well to perform an intervention operation.

1           21.   (Original) The method of claim 20, further comprising raising the carrier line  
2 after the intervention operation is completed and switching tools connected to the carrier line.

1           22.   (Original) The method of claim 21, wherein switching tools comprises actuating  
2 a carousel system having chambers containing a plurality of tools.

1           23.   (Original) The method of claim 22, further comprising engaging the carrier line  
2 with another tool after actuating the carousel system.

1           24.   (Currently Amended) ~~The method of claim 17, further comprising~~ A method of  
2 intervention with a subsea well, comprising:  
3                   positioning a carrier line spool underwater;  
4                   attaching a stack to subsea wellhead equipment, the stack in a structure separately  
5 located from the carrier line spool;  
6                   coupling a carrier line of the carrier line spool to the stack; and  
7                   attaching intervention equipment separate from the carrier line to the subsea  
8 wellhead equipment.

1           25.   (Currently Amended) The method of claim 17, further comprising using an  
2 underwater marine unit to deploy ~~couple~~ the carrier line into the stack ~~to the subsea wellhead~~  
3 ~~equipment.~~

1           26.   (Original) The method of claim 17, further comprising lowering, using an  
2 underwater marine unit, the carrier line spool to a position on a sea floor.

1           27.   (Original) The method of claim 26, further comprising attaching buoyancy tanks  
2 to the carrier line spool to enable the underwater marine unit to carry the carrier line spool  
3 underwater.

1           28.   (Cancelled)

1           29.   (Currently Amended) A method of intervention with a subsea well, comprising:  
2                   positioning a carrier line spool underwater;  
3                   ~~coupling a carrier line of the carrier line spool to subsea wellhead equipment;~~  
4                   using an underwater marine unit to couple a carrier line of the carrier line spool to  
5 ~~the subsea wellhead~~ intervention equipment; and  
6                   communicating commands to the underwater marine unit using wireless signals to  
7 control the coupling of the carrier line to the subsea intervention equipment.

1           30.   (Original) A subsea intervention method for use with subsea wellhead equipment,  
2 comprising:  
3               assembling modules containing intervention equipment; and  
4               connecting, using an underwater marine unit, the assembled intervention  
5 equipment to the subsea wellhead equipment; and  
6               attaching one or more buoyancy tanks to at least one of the modules.

1           31.   (Original) The method of claim 30, further comprising attaching one or more  
2 buoyancy tanks to the assembled intervention equipment.

1           32.   (Original) The method of claim 30, wherein assembling the modules comprises  
2 assembling a carrier line spool as part of the intervention equipment.

1           33.   (Currently Amended) The apparatus of claim 1, further comprising an underwater  
2 marine unit to attach intervention equipment separate from the carrier line to the subsea wellhead  
3 equipment, the intervention equipment comprising the stack.

1           34.   (Currently Amended) The apparatus of claim [[1]] 33, wherein ~~the intervention~~  
2 ~~equipment includes the stack~~ comprises a frame.

1           35.   (New) The method of claim 24, wherein the intervention equipment includes the  
2 stack.